

CLAIMS

1. A method for decomposing a polyester containing an aromatic moiety, the method comprising:
contacting a microorganism, having activity for decomposing a polyester containing an aromatic moiety, with the polyester to decompose it.
2. The method as claimed in claim 1, wherein the polyester is decomposed by contacting it with *Trichosporon* FERM BP-6445.
3. The method as claimed in claim 1, wherein the polyester is decomposed by contacting it with *Arthrobacter* FERM BP-6444.
4. The method as claimed in claim 1, wherein the polyester is decomposed by contacting it with *Trichosporon* FERM BP-6445 and *Arthrobacter* FERM BP-6444.
5. The method as claimed in claim 1, wherein the polyester is a homopolymer or copolymer of a monomer selected from the group consisting of an alkylene terephthalate, an alkylene phthalate and an alkylene isophthalate.
6. The method as claimed in claim 5, wherein the alkylene terephthalate is selected from the group consisting of ethylene terephthalate, propylene terephthalate and butylene terephthalate.
7. A denier reduction method of a fiber made of a polyester containing an aromatic moiety, the method comprising:
contacting a microorganism, having activity for decomposing a polyester containing an aromatic moiety, with the fiber to reduce the denier of the fiber.
8. The method as claimed in claim 7, wherein the fiber is reduced by contacting it with *Trichosporon* FERM BP-6445.
9. The method as claimed in claim 7, wherein the fiber is reduced by contacting it with *Arthrobacter* FERM BP-6444.
10. The method as claimed in claim 7, wherein the fiber is reduced by

contacting it with *Trichosporon* FERM BP-6445 and *Arthrobacter* FERM BP-6444.

11. The method as claimed in claim 7, wherein the polyester is a homopolymer or copolymer of an alkylene terephthalate.

12. The method as claimed in claim 11, wherein the alkylene terephthalate is selected from the group consisting of ethylene terephthalate, propylene terephthalate and butylene terephthalate.

13. The method as claimed in claim 7, wherein a cloth made of the fiber is contacted with the microorganism to reduce the weight of the cloth.

14. A reduced fiber produced by the denier reduction method as claimed in claim 7.

15. A reduced fiber produced by the denier reduction method as claimed in claim 8.

16. A reduced fiber produced by the denier reduction method as claimed in claim 9.

17. A reduced cloth produced by the denier reduction method as claimed in claim 13.

18. *Trichosporon* FERM BP-6445 having activity for decomposing a polyester containing an aromatic moiety.

19. *Trichosporon* FERM BP-6445 as claimed in claim 18, wherein the polyester is a homopolymer or copolymer of an alkylene terephthalate.

20. *Trichosporon* FERM BP-6445 as claimed in claim 19, wherein the alkylene terephthalate is selected from the group consisting of ethylene terephthalate, propylene terephthalate and butylene terephthalate.

21. *Arthrobacter* FERM BP-6444 having activity for decomposing a polyester containing an aromatic moiety.

22. *Arthrobacter* FERM BP-6444 as claimed in claim 21, wherein the polyester is a homopolymer or copolymer of an alkylene terephthalate.

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